

PENICILLINS AND CEPHALOSPORINS AND PROCESS FOR PRODUCING THE SAME

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 Inventor: SAIKAWA ISAMU (JP); TAKANO SHUNTARO (JP); YOSHIDA CHOSAKU (JP); TAKASHIMA OKUTA (JP); MOMONOI KAISHU (JP); KURODA SEIETSU (JP); KOMATSU MIWAKO (JP); YASUDA TAKASHI (JP); KODAMA YUTAKA (JP)
 Applicant: TOYAMA CHEMICAL CO LTD
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Abstract not available for DE2519400

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1508062 Penicillin and cephalosporin derivatives TOYAMA CHEMICAL CO Ltd 28 April 1975 [9 May 1974 13 May 1974 31 May 1974 24 July 1974 7 Aug 1974 13 Aug 1974 26 Sept 1974 12 Oct 1974 28 Oct 1974 6 Dec 1974 13 Dec 1974 17 Feb 1975 26 March 1975 27 March 1975] 17557/75 Heading C2C Novel compounds I (R is an amino acid residue; R<SP>1</SP> is H, an ester forming group, a cation or a silicon-, phosphorus-, or tin-containing group; n is 1 or 2; n X's which may be the same as or different from each other represent individually O or S and are linked in any combination at the 2-, 3- and 5-positions of the piperazine ring; m is 4-n; each pair of R<SP>2</SP> and R<SP>3</SP> is linked to the same carbon atom and m pairs of R<SP>2</SP> and R<SP>3</SP> represent individually H, halo, COOH, or an unsubstituted or substituted alkyl, cycloalkyl, aryl, acyl, aralkyl, alkoxy, alkoxyalkyl, acyl-alkoxy, alkoxy, alkoxyalkyl, cycloalkoxy, carbonyl, aralkoxy, carbonyl, amino or carbamoyl; or R<SP>2</SP> and R<SP>3</SP> together with the attached carbon atom form a cyclo-alkane ring; A is H, OH, NO₂, CN or an optionally substituted alkyl, alkenyl, alkynyl, alka-dienyl, cycloalkyl, cycloalkenyl, cycloalka-dienyl, aryl, acyl, aralkyl, acyloxyalkyl, alkoxy, cycloalkoxy, aryloxy, alkoxy, alkoxyalkyl, cyclo-alkoxy, alkoxy, alkoxyalkyl, aralkoxy, carbonyl, alkylsulphonyl, cycloalkylsulphonyl, arylsulphonyl, carbamoyl, thiocarbamoyl, acyl-carbamoyl, acylthiocarbamoyl, alkylsulphonyl-carbamoyl, arylsulphonyl-carbamoyl, alkylsulphonylthiocarbamoyl, arylsulphonylthiocarbamoyl, sulphonamoyl, alkoxy, alkoxyalkyl, alkoxythiocarbonylthioalkyl, amino or heterocyclyl; Y is O or S; -Z- is -C(CH₃)₂- or -CH₂-C(CH₂R<SP>4</SP>)= and R<SP>4</SP> is H, OH, CN, N₃, quaternary ammonium or an optionally substituted alkoxy, aryloxy, aralkoxy, acyloxy, carbamoyloxy, guanidino, amino, alkylthio, arylthio, aralkylthio, acylthio, thiocarbamoyl-thio, alkoxythiocarbonylthio, aryloxythio-carbonylthio, cycloalkoxythiocarbonylthio, aminodithio or heterocyclylthio) are prepared by conventional acylation of a compound II or IV followed where necessary by conventional chemical modification of the side chain in the cephalosporin nucleus. Pharmaceutical compositions useful as anti-bacterial agents comprise a compound I together with a suitable diluent and/or carrier.

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